

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011893

## A. CLASSIFICATION OF SUBJECT MATTER

Int.Cl<sup>7</sup> C08L61/06, C08K3/00, C08K7/02, C08J5/16//C08L61:06

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

Int.Cl<sup>7</sup> C08L61/00-61/34, C08K3/00, C08K7/02, C08J5/16

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Jitsuyo Shinan Koho 1922-1996 Jitsuyo Shinan Toroku Koho 1996-2004

Kokai Jitsuyo Shinan Koho 1971-2004 Toroku Jitsuyo Shinan Koho 1994-2004

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	JP 6-49159 A (Sumitomo Durez Co., Ltd.), 22 February, 1994 (22.02.94), Claims 1, 2; Par. No. [0002]; table 2 (Family: none)	1-5
Y	WO 03/042267 A1 (Asahi Organic Chemicals Industry Co., Ltd.), 22 May, 2003 (22.05.03), Claims 1, 2, 4, 5 & EP 1445268 A1 & AU 2002349658 A1	1-7
Y	JP 8-159244 A (Sumitomo Bakelite Co., Ltd.), 21 June, 1996 (21.06.96), Claim 1 (Family: none)	1-4, 7

☒ Further documents are listed in the continuation of Box C.☐ See patent family annex.

\* Special categories of cited documents:

"A" document defining the general state of the art which is not considered to be of particular relevance

"E" earlier application or patent but published on or after the international filing date

"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)

"O" document referring to an oral disclosure, use, exhibition or other means

"P" document published prior to the international filing date but later than the priority date claimed

"T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

"X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

"Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

"&amp;" document member of the same patent family

Date of the actual completion of the international search

25 October, 2004 (25.10.04)

Date of mailing of the international search report

09 November, 2004 (09.11.04)

Name and mailing address of the ISA/  
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## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011893

## C (Continuation). DOCUMENTS CONSIDERED TO BE RELEVANT

Category*	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	JP 8-231859 A (Showa Highpolymer Co., Ltd., Otsuka Chemical Co., Ltd.), 10 September, 1996 (10.09.96), Claim 1; Par. Nos. [0010], [0014], [0020] & WO 96/18687 A1 & EP 747444 A1 & US 5952416 A1 & KR 233359 B	1, 3-5, 7
Y	JP 2002-220507 A (Sumitomo Bakelite Co., Ltd.), 09 August, 2002 (09.08.02), Claims 1, 2; Par. Nos. [0011] to [0012]; table 1 (Family: none)	1-4
Y	JP 2000-219796 A (Fudo Kabushiki Kaisha), 08 August, 2000 (08.08.00), Claims 1, 5; table 1 (Family: none)	1-4
P, A	JP 2003-268196 A (Sumitomo Bakelite Co., Ltd.), 25 September, 2003 (25.09.03), Claims 1 to 4; Par. Nos. [0009], [0011]; table 1 (Family: none)	1-7
A	JP 3-167248 A (Sumitomo Bakelite Co., Ltd.), 19 July, 1991 (19.07.91), Claims 1, 3; page 3, upper left column, line 9 to upper right column, line 5; page 4, table 1 (Family: none)	6

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/JP2004/011893

**Box No. II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet)**

This international search report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. ☐ Claims Nos.:  
because they relate to subject matter not required to be searched by this Authority, namely:
2. ☐ Claims Nos.:  
because they relate to parts of the international application that do not comply with the prescribed requirements to such an extent that no meaningful international search can be carried out, specifically:
3. ☐ Claims Nos.:  
because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

**Box No. III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)**

This International Searching Authority found multiple inventions in this international application, as follows:

The search has revealed that "a molding material comprising a phenol resin" described in claim 1 has been disclosed in the document cited in Box C, and thus is not novel. Therefore, claim 1 includes no matter which is considered to be "a special technical feature" in the meaning of PCT Rule 13.2, the second sentence.

On the other hand, inventions according to claims 4, 6 and 7 have "special technical features" of "that the novolac phenol resin has been prepared by a heterogeneous reaction in the presence of a phosphoric acid in an amount (continued to extra sheet)

1. ☐ As all required additional search fees were timely paid by the applicant, this international search report covers all searchable claims.
2. ☒ As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. ☐ As only some of the required additional search fees were timely paid by the applicant, this international search report covers only those claims for which fees were paid, specifically claims Nos.:
4. ☐ No required additional search fees were timely paid by the applicant. Consequently, this international search report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

**Remark on Protest**

- ☐ The additional search fees were accompanied by the applicant's protest.  
☐ No protest accompanied the payment of additional search fees.

**INTERNATIONAL SEARCH REPORT**

International application No.

PCT/JP2004/011893

Continuation of Box No.III of continuation of first sheet(2)

of 5 parts by weight or more relative to 100 parts by mass of a phenol",  
"that the inorganic filler is a combination of 300 to 800 parts by mass  
of wallastonite and 100 to 200 parts by weight of a glass fiber"  
and "that a molding material comprising a phenol resin is molded into  
a sliding part to be used in a state wherein it is lubricated by an oil  
or water, respectively.

From the above, it is concluded that there is no matter between claim  
1 and claims 4, 6 and 7, which is considered to be the same or corresponding  
"special technical feature".

Accordingly, claim 1 and claims 4, 6 and 7 do not comply with the  
requirement of unity of invention.